



Washington Department of Fish and Wildlife

Fish Passage & Diversion Screening Inventory Database Report Cover Sheet

The following report is extracted from the Washington Department of Fish and Wildlife's (WDFW) Fish Passage and Diversion Screening Inventory Database (FPDSI). WDFW makes every attempt to keep these reports in sync with FPDSI; however, the dynamic nature of the data and workflows associated with maintaining the database may result in short-term differences.

Users are encouraged to contact WDFW to discuss appropriate use of the data and how we can assist with fish passage barrier removal or inventory. Please visit the Fish Passage web site for contact information at: <https://wdfw.wa.gov/species-habitats/habitat-recovery/fish-passage/about>

Disclaimers:

- Data presented here represent a snapshot observation of conditions in a dynamic environment that is subject to change. Fish passage data are also collected from a variety of agencies and sources. Therefore, WDFW makes no guarantee concerning the data's content, accuracy, completeness, or the results obtained from use of the data. WDFW assumes no liability for the data represented here.
- These data are not an attempt to provide you with an official agency response as to the impacts of your project on fish and wildlife.
- Note that some fish passage features, habitats or species may occur in areas not currently known to the WDFW Fish Passage division, and may not be reflected in this database. A lack of data does not necessarily indicate that a feature, habitat, or species are not present.
- Unauthorized attempts to alter or modify these data are strictly prohibited.
- Bankfull width measurements included in these reports should not be used for fish passage crossing design. They are solely for assessment purposes.
- The barrier status reported in this document is based on the swimming abilities of adult salmonids. Passabilities are a qualitative value, and should not be interpreted as a quantitative calculation. Please see page 1-4 of the Fish Passage Inventory, Assessment and Prioritization Manual for further clarification: <https://wdfw.wa.gov/publications/02061>
- EXIF data presented with Image Reports may be erroneous due to camera battery failures and resetting of camera clock functions.

Abbreviations:

Most abbreviations in this report are defined in the Quick Reference Tables of the Fish Passage Inventory, Assessment, and Prioritization Manual. Additional commonly used abbreviations are defined as follows:

NFB = no potential salmonid use, **BB** = both banks, **LB** = left bank looking downstream, **RB** = right bank looking downstream, **US** or **U/S** = upstream, **DS** or **D/S** = downstream, **WSDrop** = water surface drop, **BFW** = bankfull width, **OHW** = ordinary high water, **SLW** = scour line width, **CMP** = corrugated metal pipe, **Q_{fp}** = fish passage flow, **V&D** = Velocity and Depth, **ROW** = Right of Way

The FPDSI database often uses default values such as '-99.99' or '-999' to represent null values.

WDFW Fish Passage and Diversion Screening Inventory Database

Site Description Report

Site ID

Project

☐ Mitigated

Geographic Coordinates

| | |
|----------------------|--|
| Latitude (WGS 84): | <input type="text" value="47.70835"/> |
| Longitude (WGS 84): | <input type="text" value="-122.60318999"/> |
| East (NAD 83 HARN): | <input type="text" value="1,122,592.9"/> |
| North (NAD 83 HARN): | <input type="text" value="873,077.7"/> |

Waterbody

| | |
|---------------------|--|
| Stream: | <input type="text" value="Sam Snyder Cr"/> |
| Tributary To: | <input type="text" value="Liberty Bay"/> |
| WRIA: | <input type="text" value="15.0293"/> |
| River Mile: | <input type="text" value="-999.99"/> |
| Fish Use Potential: | <input type="text" value="Yes"/> |
| FUP Criteria: | <input type="text" value="Biological"/> |

General Location

| | |
|--------------|-------------------------------------|
| Road Name: | <input type="text" value="SR 305"/> |
| Mile Post: | <input type="text" value="8.92"/> |
| County: | <input type="text" value="Kitsap"/> |
| WDFW Region: | <input type="text" value="6"/> |

Owner

| | |
|-------|--|
| Type: | <input type="text" value="State"/> |
| Name: | <input type="text" value="Washington State Department of Transportation"/> |

PI Species

| | | |
|--|---|---|
| <input type="checkbox"/> Sockeye | <input type="checkbox"/> Chinook | <input checked="" type="checkbox"/> Sea Run Cutthroat |
| <input type="checkbox"/> Pink | <input checked="" type="checkbox"/> Coho | <input checked="" type="checkbox"/> Resident Trout |
| <input checked="" type="checkbox"/> Chum | <input checked="" type="checkbox"/> Steelhead | <input type="checkbox"/> Bull Trout |

Associated Features

| | | | |
|---|--------------------------------|--|------------------------------------|
| <input checked="" type="checkbox"/> Culvert | <input type="checkbox"/> Dam | <input type="checkbox"/> Natural Barrier | <input type="checkbox"/> Diversion |
| <input type="checkbox"/> Non-Culvert Xing | <input type="checkbox"/> Other | <input type="checkbox"/> Fishway | |

Location/Directions

Site Comments

Coho and cutthroat present up to SR 305 Xing (Jeff Davis, AreaHabBio). Stream dry 7/13/01. Stream dry 9/14/04. 11/9/2004 flowing. Part of PS 994327.

11/19/2021

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WDFW Fish Passage and Diversion Screening Inventory Database

Level A Culvert Assessment Report

Site ID: **994327**
 Latitude: **47.70835** Stream: **Sam Snyder Cr** WRIA: **15.0293**
 Longitude: **-122.60318999** Tributary To: **Liberty Bay** Fish Use Potential: **Yes**

Data Source: Washington Department of Fish and Wildlife

Field Crew: Fredley;Leigh

Review Date: 3/16/2016

Culvert Details

Level A Parameters

| ID | Shape | Material | Span | Rise | Length | WDIC | Apron | WSDrop | Location | Countersunk | Backwater | Slope (%) | Sediment |
|-----|-------|----------|------|------|--------|------|-------|--------|----------|-------------|-----------|-----------|----------|
| 1.2 | RND | PCC | 0.91 | 0.91 | 89.50 | 0.03 | NO | 0.86 | Outlet | No | No | 2.70 | |
| 2.2 | RND | PCC | 0.91 | 0.91 | 90.80 | 0.04 | NO | 2.35 | Outlet | No | No | 1.41 | |

All dimensions in meters

Channel Description

Toe Width (m): 1.3

Average Width (m): 4.70

Culvert/Stream Width Ratio: 0.39

Plunge Pool

Length (m): 8.10

Max Depth (m): 1.10

OHW Width (m): 4.75

Road

Fill Depth (m): 25.00



Assessment Results

Tidal Influence:

Tidegate Present:

No

Barrier:

Yes

Passability (%):

0

Method:

Level A

Reason:

WS Drop

Fishway Present:

No

Recheck:

Comments

1.2 = This one is LB pipe- most DS section falling/breaking away, water flowing out of bottom. 2.2 = This one is RB pipe. Steep, deep, brushy fill. Most of flow goes through pipe 2.2 due to debris at inlet.

Potential Habitat Gain

Survey Type:

RSFS

Spawning (sq m):

2,231

Length (m):

3,186

Significant Reach:

Yes

Rearing (sq m):

4,456

PI Total

20.91

11/19/2021

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WDFW Fish Passage and Diversion Screening Inventory Database

Habitat Survey Summary Report

Site ID: **994327**

Latitude: **47.70835** Longitude: **-122.60318999** WRIA: **15.0293**

Stream: **Sam Snyder Cr** Tributary To: **Liberty Bay** PI Total: **20.91**

Survey Type

Spreadsheet File(s):

994327.xls, 994327_Add.xls

Downstream Survey

Date: Crew: Length (m):

Downstream Comments:

Flows from forested ravine, alternating as pool and riffle. Substrate comprised of fines and gravel, some cobbles. Dominant species are salmonberry and fern. Mixed canopy. High instream cover.

Upstream Survey

Date: Crew: Length (m):

Upstream Comments:

Flows from wooded ravine through mostly gravel substrate, with fines and cobbles. Stream frequently undercuts banks. Canopy is high, but decreases towards Liberty Bay.

Potential Habitat Gain

Lineal (m):

Spawning Area (sq m):

Rearing Area (sq m):

Distribution

- ☒ Anadromous
☐ Resident Only
☐ Unknown

Gain Direction (Resident Only):

Potential Species Benefit

☐ Sockeye / Kokanee

☐ Chinook

☒ Searun Cutthroat

☐ Pink

☒ Coho

☒ Resident Trout

☒ Chum

☒ Steelhead

☐ Bull Trout

11/19/2021

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WDFW Fish Passage and Diversion Screening Inventory Database

Barrier Priority Index Report

Site ID: 994327

| | | | | | |
|-------------------------------|---------------|---------|-------------|------|---------|
| Stream | Sam Snyder Cr | Trib To | Liberty Bay | WRIA | 15.0293 |
| Habitat (H) Estimation Method | | | RSFS | | |

| | B | H | M | D | C | Species PI |
|------------------|---|-------|---|---|-----------------|--------------|
| Sockeye | | | 2 | | 1 | 0.00 |
| Pink | | | 2 | | 1 | 0.00 |
| Chum | 1 | 2,231 | 2 | 1 | 1 | 8.64 |
| Coho | 1 | 3,983 | 2 | 1 | 1 | 4.47 |
| Chinook | | | 2 | | 1 | 0.00 |
| Steelhead | | | 2 | | 1 | 0.00 |
| Searun Cutthroat | 1 | 3,983 | 2 | 1 | 1 | 4.14 |
| Resident Trout | 1 | 4,456 | 1 | 1 | 1 | 3.66 |
| Dolly/Bull Trout | | | | | 1 | 0.00 |
| | | | | | TOTAL PI | 20.91 |

B = proportion of fish passage improvement (1, 0.67, 0.33).

H = potential habitat gain (square meters), spawning habitat for sockeye, pink and chum, rearing habitat for the rest.

M= mobility modifier (anadromous = 2, resident = 1).

D = stock condition modifier (critical = 3, depressed = 2, not 2 or 3 = 1).

C= repair cost modifier (<\$100K = 3, \$100K - \$500K = 2, >\$500K = 1).

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WDFW Fish Passage and Diversion Screening Inventory Database

Image Report - Active

Site ID: 994327

Latitude: 47.70835

Longitude: -122.60318999

Stream: Sam Snyder Cr

Tributary To: Liberty Bay

WRIA:

15.0293

Fish Use Potential:

Yes

Associated Features

☒ Culvert

☐ Dam

☐ Natural Barrier

☐ Diversion

☐ Non-Culvert Xing

☐ Other

☐ Fishway



11/19/2021

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